

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 141906***141906***

Page 2

Friday, February 19, 2016 10:37:27 AM

Item ID: 606.7821 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: PRELIM Stop ***NS2***
Item Name: Test Pull Rod
Start Date: 3/1/2016 Start Qty: 5.00 ***5*** Cust Item ID:
Required Date: 3/1/2016 Req'd Qty: 5.00 ***5*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Identify as per dwg & Stock Location: <u>Sold</u>	0.00							
140									
Packaging	Memo	0.00							
Packaging									
150	QC21- Final Inspection - Work Order Release	0.00							
150									
QC	Memo	0.00							
Quality Control									

Handwritten notes and stamps:
- **DAS** (vertical stamp)
- **MCS** (handwritten)
- **MAR 03 2016** (stamp)
- **MCS** (handwritten)
- **MAR 03 2016** (stamp)

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		☐ OTHER : _____			

Picklist Print

Page 1

Friday, February 19, 2016 10:37:27 AM

Work Order ID: 141906

141906

Parent Item: 606.7821

606 7821

Parent Item Name: Test Pull Rod

Start Date: 3/1/2016

Required Date: 3/1/2016

Start Qty: 5.00

Required Qty: 5.00

Comments: IPP REV:A 15.08.11 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304R.250		Purchased			No		f	19.0984		1.242106			
M304R 250									**			16/03/03	DAS 40 9-89
304 SS Round bar .250													

Location

Loc Qty

Loc Code

MAT

12

m133368

12

MAT028

7.098394

122682

7.098394

1.75

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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NOTES:

1. IDENTIFY PER MPP-120.

2. MATERIAL: AISI TYPE 304 STAINLESS STEEL.

3. APPLY ANTI-SIEZE AS REQUIRED.

4. MATERIAL: MCMASTER CARR P/N 8860K26.
BEND 6IN WIRE INTO SPECIFIED SHAPE.

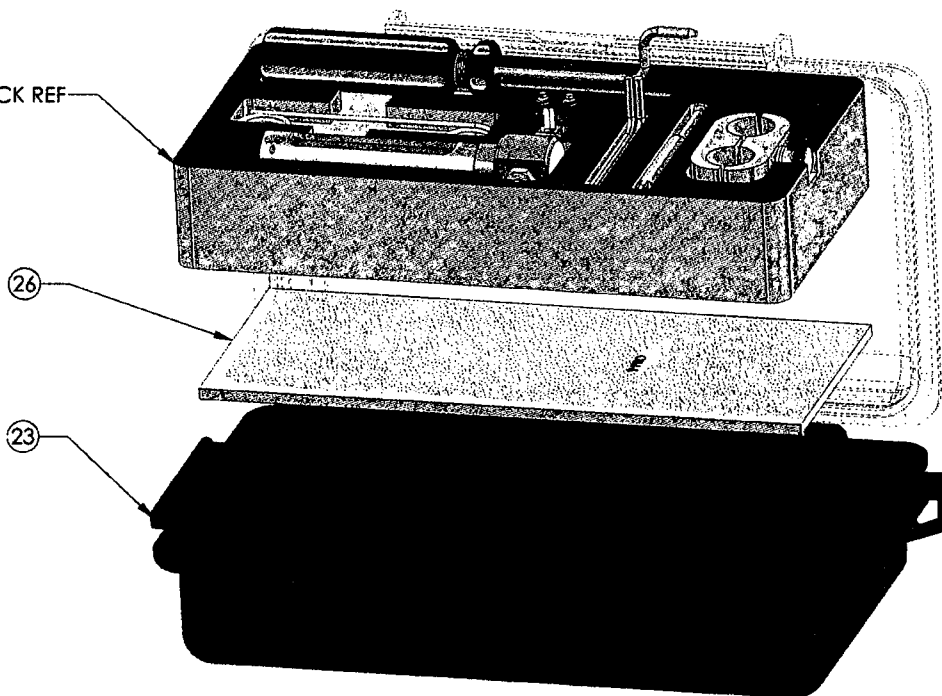
5. MAKE FROM P/N 601.3825 SCREW DRIVER. BEND BLADE SHAFT TO SHAPE AND DIMENSIONS SHOWN.

6. MATERIAL: 600.0062 FOAM.

7. APPLY LABELS P/N 601.3830 & 601.3831 AS SHOWN.

8. FINISH IAW MPP-172:
ELECTROPOLISH PER SECTION 7.0
PASSIVATE PER SECTION 6.0

FOAM PACK REF



606.7803

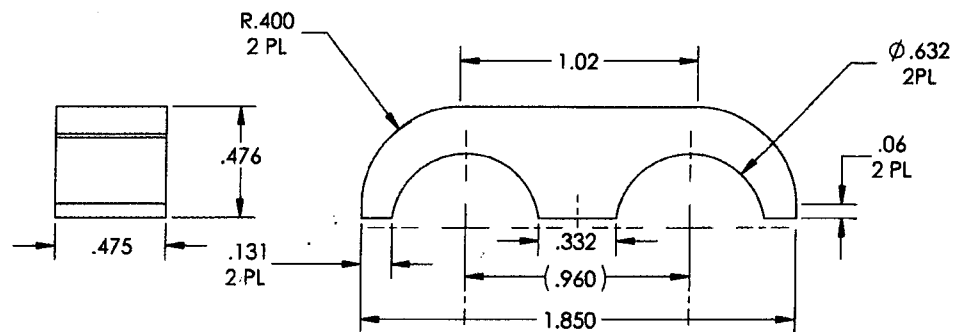
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: PPS		N/C
N/C	INITIAL RELEASE	11-20-15	P. BRAVO

1	-	-	26	OIM-5	OPERATION INSTRUCTIONS		
1	-	-	25	601.3831	DART LOGO LABEL		
1	-	-	24	601.3830	LABEL		
1	-	-	23	601.3829	PELICAN 1060 MICRO SERIES CASE		
1	-	-	22	606.7822	FOAM		
1	-	-	21	606.7821	TEST PULL ROD		
1	-	-	20	606.7820	RESET TOOL		
1	-	-	19	601.3824	HEX L-KEY 7/16"	7122A17	
1	-	-	18	601.3823	HEX L-KEY 3/32"	7122A16	
1	-	1	17	601.3822	SEALING HEX NUT	91339A120	
3	-	1	16	601.3821	SET SCREW	90291A827	
1	-	1	15	601.2591	SCREW	AN500-AD4-2	
1	-	1	14	601.3796	KEY RING		
2	-	2	13	601.2937	O-RING	AS568A-008	
1	-	1	12	606.7814	PLUNGER CAP		
1	-	1	11	601.3775	SPRING		
1	-	1	10	606.7815	PLUNGER		
1	-	1	9	645.6910	PULL ROD		
1	-	1	8	606.7810	PULL ROD HOUSING		
1	-	1	7	645.7710	SHROUD		
1	1	-	6	601.1084	O-RING	AS568A-006	
1	1	-	5	601.3819	WASHER	92141A009	
1	1	-	4	601.3867	THUMB SCREW	99607A139	
1	1	-	3	606.7819	CLAMP LOWER HALF		
1	1	-	2	606.7823	CLAMP UPPER HALF		
2	-	2	1	606.7818	RETAINER WIRE	8860K26	
X				606.7803	PULL CABLE TEST KIT		
X	1			606.7802	CLAMP ASSY		
X				606.7801	PULL CABLE TEST FIXTURE		
7803,7802	.7801	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

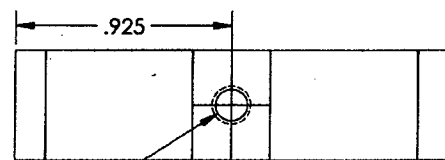
PARTS LIST			
QTY	DESCRIPTION	MAT'L	SPEC.
NEXT ASSY (S)			
NONE			
ORIGINAL DATE: 11/20/15 DRAWN BY: J. BECKER DRAWING APPROVAL: P. BRAVO CONTRACT NO.: DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760) 734-5300			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ±.001 2 PLACE DECIMALS ±.005 ANGLES ±.2° PULL CABLE TEST FIXTURE-DART VALVE SIZE: 8 CAGE CODE: 07M26 DWG. NO.: 606.7800 SCALE: NONE REV. N/C SHEET 1 OF 11			

PRINTED COPY OF THIS DOCUMENT IS FOR REFERENCE ONLY AND IS UNCONTROLLED

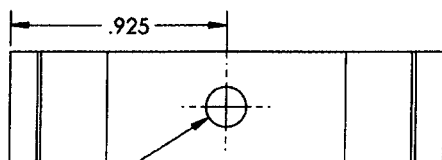
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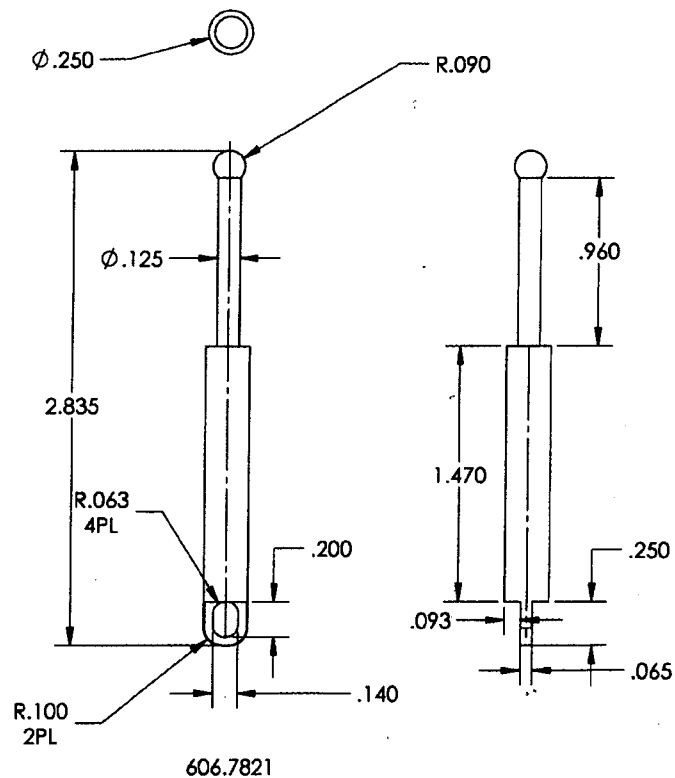
606.7819 & 606.7823



606.7819 ONLY



606.7823 ONLY



606.7821

ORIGINAL DATE 11/20/15	DART 3030 ENTERPRISE CT., SUITE A, VISTA, CA 92081 (760) 724-5300	
DRAWN BY J. BECKER	CHECKED BY P. BRAVO	APICAL INDUSTRIES INC. DBA DART AEROSPACE
DRAWING APPROVAL P. BRAVO	DATE 11/24/15	PULL CABLE TEST FIXTURE-DART VALVE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS .010 3 PLACE DECIMALS .005 ANGLES ± .5°		REV. 1 N/C
SCALE NONE		SHEET 7 OF 11

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Apical Industries, Inc.
dba Dart Aerospace
3030 Enterprise Ct., Suite A
Vista, CA 92081-8347
T 760 724 5300
F 760 509 1562

Change Order

Order #: P1559
Prepared By: Sarah Arango
Date Printed: 2/17/2016
Time: 11:02:02 AM
of Items: 6
Page: 1

Purchased From:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA



Ship To:
Apical Industries, Inc.
dba DART Aerospace
3030 Enterprise Court
Suite A
Vista, CA 92081
United States

REPLY WITH
CONFIRMATION
OF ORDER

PO Date: 2/16/2016 Cust Ref#: E-MAIL REQ JACO Vendor #: DAL1 Customer:
Need Date: 0 Terms: NET 30 DAY Phone #: 1-613-632-3336 Fax #: 1-613-632-4443
Remarks: E-MAIL REQ JACOB. B CABLE KITS Resale: YES Resale #:
Insure?: Please Insure Ship Via: UPS GROUND Account: FOB: ON

Change Order -- Do Not Duplicate

Item	Part Number/Description	CD	Qty	Req Date	Unit Price	Line Amt
1	606.7819 CLAMP HALF REV NC	NE	5.00	3/2/2016	\$88.50 EA	\$442.50
2	606.7815 PLUNGER REV NC	NE	5.00	3/2/2016	\$68.50 EA	\$342.50
3	606.7821 TEST PULL ROD REV NC	NE	5.00	3/2/2016	\$52.50 EA	\$262.50
4	606.7810 PULL ROD HOUSING REV NC	NE	5.00	3/2/2016	\$92.50 EA	\$462.50
5	606.7814 PLUNGER CAP REV NC	NE	5.00	3/2/2016	\$60.50 EA	\$302.50
6	ALL PARTS TO BE DONE WITH NO PASSIVATION AND NO ELECTROPOLISHING. SA 2/17/2016 DAS TRANSFER PRICE 15 TRANSFER PRICE		1.00		\$271.88	\$271.88
THIS PO IS FOR RESALE OR NON-TAXABLE SERVICE. PLEASE DO NOT ADD SALES&USE TAX TO ANY ITEM ON THIS PO.						
PLEASE CONTACT ME IF THERE ARE ANY DELAYS OR IF YOU HAVE ANY QUESTIONS.						

Quality Assurance Clauses

Refer to Document # AIPWI-7.4.1QCS Latest Revision for applicable clauses checked below

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☒ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☒ 11 ☒ 12
☒ 13 ☒ 14 ☐ 15 ☒ 16 ☐ 17 ☐ 18 ☒ 19 ☒ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☒ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☒ 35 ☐ 36
☐ 37 ☐ 38 ☐ 39 ☐ 40

Item Total: \$1,812.50

Authorized Signatures: See Below

See last page for totals

Purchasing:

QC:

Production:



Apical Industries, Inc.
dba Dart Aerospace
3030 Enterprise Ct., Suite A
Vista, CA 92081-8347
T 760 724 5300
F 760 509 1562

Change Order

Order #: P1559
Prepared By: Sarah Arango
Date Printed: 2/17/2016
Time: 11:02:02 AM
of Items: 6
Page: 2

Purchased From:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

Ship To:
Apical Industries, Inc.
dba DART Aerospace
3030 Enterprise Court
Suite A
Vista, CA 92081
United States

PO Date: 2/16/2016 Cust Ref#: E-MAIL REQ JACO Vendor #: DAL1 Customer:
Need Date: 0 Terms: NET 30 DAY Phone #: 1-613-632-3336 Fax #: 1-613-632-4443
Remarks: E-MAIL REQ JACOB. B CABLE KITS Resale: YES Resale #:

Insure?: Please Insure Ship Via: UPS GROUND Account: FOB: ON

Change Order -- Do Not Duplicate

Item	Part Number/Description	CD	Qty	Req Date	Unit Price	Line Amt
	ALWAYS INCLUDE PACKING SLIP WITH SHIPMENT. Sarah Arango Dart Aerospace Phone: 760-509-1608 Fax: 760-758-9612 sarango@dartaerospace.com					

Quality Assurance Clauses

Refer to Document # AIPWL-7.4.1 QCS Latest Revision for applicable clauses checked below

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12
☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36
☐ 37 ☐ 38 ☐ 39 ☐ 40

Item Total: \$1,812.50

Charges: \$271.88

Total: \$2,084.38

US Dollars

Authorized Signatures: See Below

dba3030R3

Purchasing:

QC:

Production: